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PTO/SB/01 (12-97)

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)☒ Declaration
Submitted
with Initial
Filing
OR
☐ Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number STL9683

First Named Inventor Min, ShuangQuan

COMPLETE IF KNOWN

Application Number

Filing Date

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Feed-Forward Compensation of Cage Frequency Using A Reference Head In A
Servo-Writer

the specification of which

(Title of the invention)

☒ Is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment specifically referred to above

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 356(b) of any foreign application(s) for patent or inventor's certificate, or 366(a) of any PCT International application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below

Application Number(s)	Filing Date (MM/DD/YYYY)	
60/211,550	06/14/2000	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO Assistant Commissioner for Patents, Washington, DC 20231

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Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number**DECLARATION — Utility or Design Patent Application**

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 35(c) of any PCT international application designating the United States or America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02C attached hereto

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number OR
☒ Registered practitioner(s) name(s)/registration number listed below

Place Customer
Number Bar Code
Label here

Name	Registration Number	Name	Registration Number
Jonathan E. Olson	41,231	Edward P. Heller III	29,075
Shawn B. Dempster	34,321		
Derek J. Berger	45,401		

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto

Direct all correspondence to: ☐ Customer Number OR ☒ Correspondence address below

Name	John R. Wahl, Merchant & Gould		
Address	1400 Independence Plaza		
Address			
City	Denver	State	CO
ZIP	80265-0100		
Country	USA	Telephone	303-357-1656
Fax	303-357-1671		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor:	<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle, if any)	Family Name or Surname		
ShuangQuan	Min		
Inventor's Signature	<i>Min ShuangQuan</i>		Date 2/8/2001
Residence City	Singapore	State	Country Singapore
Citizenship	China		
Post Office Address	Blk 342, #07-178, Clementi Avenue 5		
Post Office Address			
City	Singapore	State	ZIP 120342
Country	Singapore		

☒ Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto

(Page 2 of 2)

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PTO/SB/02A (3-97)

DECLARATION

 ADDITIONAL INVENTOR(S)
 Supplemental Sheet
 Page 1 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
KianKenng				Dai			
Inventor's Signature						Date	25/5/01
Residence: City	Singapore	State		Country	Singapore	Citizenship	Malaysia
Post Office Address Blk 249, Hougang Ave. 3, #08-404							
Post Office Address							
City	Singapore	State		ZIP	530249	Country	Singapore
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
Ricky WeiWatt				Yeo			
Inventor's Signature						Date	25/5/01
Residence: City	Singapore	State		Country	Singapore	Citizenship	Singapore
Post Office Address Blk 402, #06-246, Clementi Avenue 1							
Post Office Address							
City	Singapore	State		ZIP	120402	Country	Singapore
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))				Family Name or Surname			
WeiSung				Lee			
Inventor's Signature						Date	25/5/01
Residence: City	Singapore	State		Country	Singapore	Citizenship	Malaysia
Post Office Address Blk 3, Dover Road, #12-364							
Post Office Address							
City	Singapore	State		ZIP	130003	Country	Singapore



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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 2 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
BengWec		Quak	
Inventor's Signature			Date
Residence: City	Singapore	State	Country Singapore
Post Office Address	130, Lorong L, Telok Kurau		
Post Office Address	12, Lor 14 Geylang, #07-10		
City	Singapore	State	ZIP 425566 Country Singapore
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Chiapleok		Ang	
Inventor's Signature			Date
Residence: City	Singapore	State	Country Singapore
Post Office Address	46, Eastwood Road, #03-11		
Post Office Address			
City	Singapore	State	ZIP 486356 Country Singapore
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature			Date
Residence: City		State	Country
Post Office Address			
Post Office Address			
City		State	ZIP Country

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20291. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/A2A (3-97)

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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental SheetPage 2 of 2

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))		Family Name or Surname			
Beng Wee		Quak			
Inventor's Signature				Date	
Residence: City	Singapore	State		Country	Singapore
Post Office Address	12, Lor 14 Geylang, #07-10				
Post Office Address					
City	Singapore	State		ZIP	
Country	Singapore				
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))		Family Name or Surname			
Chiapleok		Ang			
Inventor's Signature	<i>M. J.</i>			Date	24/5/01
Residence: City	Singapore	State		Country	Singapore
Post Office Address	46, Eastwood Road, #03-11				
Post Office Address					
City	Singapore	State		ZIP	486356
Country	Singapore				
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle (if any))		Family Name or Surname			
Inventor's Signature				Date	
Residence: City		State		Country	
Post Office Address					
Post Office Address					
City		State		ZIP	
Country					

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual cases. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	ShuangQuan Min et al.		
Serial No.:		Examiner:	
Filed:	Enclosed Herewith	Group Art Unit:	
Title:	FEED-FORWARD COMPENSATION OF CAGE FREQUENCY USING A REFERENCE HEAD IN A SERVO-WRITER		
Docket:	SEA9683/40176.44USU1		

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the entire interest of the above identified application,
REVOCATION OF PRIOR POWERS OF ATTORNEY
all powers of attorney previously given are hereby revoked and
NEW POWER OF ATTORNEY
the following practitioners/patent agent are hereby appointed to prosecute and transact all business in the
Patent and Trademark Office connected therewith.

Shawn B. Dempster, Registration No. 34,321	Edward P. Heller, III, Registration No. 29,075
Jonathan E. Olson, Registration No. 41,231	Raghunath S. Minisandram, Registration No. 38,683
Derek J. Berger, Registration No. 45,401	Leland D. Schultz, Registration No. 30,322
Kirk A. Cesari, Registration No. 47,479	Carol I. Bordas, Registration No. 37,284
Mitchell K. McCarthy, Registration No. 38,794	

And members of the firm of Merchant & Gould P.C.

Albrecht, John W.	Reg. No. 40,481	Holzer, Jr., Richard J.	Reg. No. 42,668
Anderson, Gregg I.	Reg. No. 28,828	Johnston, Scott W.	Reg. No. 39,721
Batzli, Brian H.	Reg. No. 32,960	Kadievitch, Natalie D.	Reg. No. 34,196
Beard, John L.	Reg. No. 27,612	Karjeker, Shaukat	Reg. No. 34,049
Berns, John M.	Reg. No. 43,496	Kettelberger, Denise	Reg. No. 33,924
Black, Bruce E.	Reg. No. 41,622	Keys, Jeramie J.	Reg. No. 42,724
Branch, John W.	Reg. No. 41,633	Knearl, Homer L.	Reg. No. 21,197
Bremer, Dennis C.	Reg. No. 40,528	Kowalchyk, Alan W.	Reg. No. 31,535
Bruess, Steven C.	Reg. No. 34,130	Kowalchyk, Katherine M.	Reg. No. 36,848
Byrne, Linda M.	Reg. No. 32,404	Lacy, Paul E.	Reg. No. 38,946
Carlson, Alan G.	Reg. No. 25,959	Larson, James A.	Reg. No. 40,443
Caspers, Philip P.	Reg. No. 33,227	Liepa, Mara E.	Reg. No. 40,066
Chiapetta, James R.	Reg. No. 39,634	Lindquist, Timothy A.	Reg. No. 40,701
Clifford, John A.	Reg. No. 30,247	Lycke, Lawrence E.	Reg. No. 38,540
Coldren, Richard J.	Reg. No. 44,084	McAuley, Steven A.	Reg. No. 46,084
Daignault, Ronald A.	Reg. No. 25,968	McDonald, Daniel W.	Reg. No. 32,044
Daley, Dennis R.	Reg. No. 34,994	McIntyre, Jr., William F.	Reg. No. 44,921
Dalglish, Leslie E.	Reg. No. 40,579	Mueller, Douglas P.	Reg. No. 30,300
Daulton, Julie R.	Reg. No. 36,414	Pauly, Daniel M.	Reg. No. 40,123
DeVries Smith, Katherine M.	Reg. No. 42,157	Phillips, John B.	Reg. No. 37,206
DiPietro, Mark J.	Reg. No. 28,707	Plunkett, Theodore	Reg. No. 37,209
Edell, Robert T.	Reg. No. 20,187	Prendergast, Paul J.	Reg. No. 46,068
Epp Ryan, Sandra	Reg. No. 39,667	Pytel, Melissa J.	Reg. No. 41,512
Glance, Robert J.	Reg. No. 40,620	Qualey, Terry	Reg. No. 25,148
Goggin, Matthew J.	Reg. No. 44,125	Reich, John C.	Reg. No. 37,703
Golla, Charles E.	Reg. No. 26,896	Reiland, Earl D.	Reg. No. 25,767
Gorman, Alan G.	Reg. No. 38,472	Schmaltz, David G.	Reg. No. 39,828
Gould, John D.	Reg. No. 18,223	Schuman, Mark D.	Reg. No. 31,197
Gregson, Richard	Reg. No. 41,804	Schumann, Michael D.	Reg. No. 30,422
Gresens, John J.	Reg. No. 33,112	Scull, Timothy B.	Reg. No. 42,137
Hamre, Curtis B.	Reg. No. 29,165	Sebald, Gregory A.	Reg. No. 33,280
Hillson, Randall A.	Reg. No. 31,838		

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Skoog, Mark T.	Reg. No. 40,178	Wahl, John R.	Reg. No. 33,044
Spellman, Steven J.	Reg. No. 45,124	Weaver, Karrie G.	Reg. No. 43,245
Stoll-DeBell, Kirstin L.	Reg. No. 43,164	Welter, Paul A.	Reg. No. 20,890
Sumner, John P.	Reg. No. 29,114	Whipps, Brian	Reg. No. 43,261
Swenson, Erik G.	Reg. No. 45,147	Wickhem, J. Scot	Reg. No. 41,376
Tellekson, David K.	Reg. No. 32,314	Williams, Douglas J.	Reg. No. 27,054
Trembath, Jon R.	Reg. No. 38,344	Witt, Jonelle	Reg. No. 41,980
Underhill, Albert L.	Reg. No. 27,403	Wu, Tong	Reg. No. 43,361
Vandenburgh, J. Derek	Reg. No. 32,179	Xu, Min S.	Reg. No. 39,536
		Zeuli, Anthony R.	Reg. No. 45,255

CHANGE OF ATTORNEY'S/AGENT'S ADDRESS IN APPLICATION

Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903

STATEMENT UNDER 37 CFR 3.73(b)

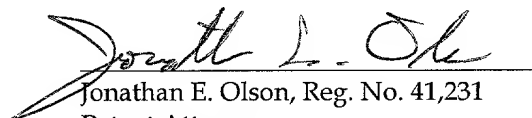
Seagate Technology LLC states that it is the Assignee of Entire Interest in the patent application/patent identified above by virtue of an Assignment from the inventor(s) of the patent application/patent identified above. A copy of the Assignment is attached and/or was recorded in the Patent and Trademark Office at Reel _____, Frame _____. The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the Assignee.

Respectfully submitted,

SEAGATE TECHNOLOGY LLC
(Assignee of Entire Interest)

29 MAY '01

Date


Jonathan E. Olson, Reg. No. 41,231
Patent Attorney
SEAGATE TECHNOLOGY LLC
Intellectual Property Dept. - CO2LG
389 Disc Drive
Longmont, Colorado 80503
(720) 684-2295 (telephone)
(720) 684-2588 (facsimile)

109090" 43252850

ASSIGNMENT

Attorney Docket No. : 40176.44USU1

Seagate Docket No. : STL9683

WHEREAS, I/we, ShuangQuan Min of Blk 342, #07-178, Clementi Avenue 5, Singapore, 120342; KianKeong Ooi of Blk 249, Hougang Ave 3, #08-404, Singapore, 530249; Ricky WeiWatt Yeo of Blk 402, #06-246, Clementi Avenue 1, Singapore, 120402; WeiSung Lee of Blk 3, Dover Road, #12-364, Singapore, 130003; BengWee Quak of 130, Lorong L, Telok Kurau, Singapore, 425566; and ChiapHeok Ang of 46, Eastwoor Road, #03-11, Singapore, 486356 are the inventor(s) of an invention entitled Feed-Forward Compensation of Cage Frequency Using A Reference Head In A Servo-Writer that is the subject matter of: (check all that apply)

- ☒ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. 60/211,550 filed on June 14, 2000;
- ☒ an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. _____ filed on _____ and/or executed on even date herewith: and
- ☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. _____ filed on _____; and/or executed on even date herewith:

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/we transfer to Assignee, its successors and assigns, my/our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I/we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

Min Shu

ShuangQuan Min(Inventor)

Subscribed and sworn to before me at Longmont, Colorado, a witness, this 29th day
of May 20 01.

Jim Smith
WitnessKianKeong Ooi
KianKeong Ooi(Inventor)

Subscribed and sworn to before me at SEAGATE S.P., a witness, this 25 day
of May 20 01.

Liu Kexiu
WitnessRicky Wei
Ricky WeiWatt Yeo(Inventor)

Subscribed and sworn to before me at SEAGATE SCIENCE PARK, a witness, this 25 day
of May 20 01.

Teng Jack Ming Joo
WitnessWei Sung Lee
Wei Sung Lee(Inventor)

Subscribed and sworn to before me at SEAGATE SCIENCE PARK, a witness, this 25 day
of MAY 20 01.

Ang
Witness

Ang Djunaedy

T02090"10852860

BengWee Quak(Inventor)

Subscribed and sworn to before me at
day of _____, 20____.

, a witness, this _____

Witness



ChlapHeok Ang(Inventor)

Subscribed and sworn to before me at
day of May, 2001.Singapore, a witness, this 24th

Witness



LIM MU CHONG

T09090"4833/060